

AMENDMENTS TO THE SPECIFICATION

Paragraphs at page 1, line 12 through page 2, line 14:

On the downlink of a CDMA cellular, transmission signals directed to a plurality of mobile stations are spread and multiplexed by different spreading codes at a base station and then transmitted in a group the lump. On the downlink, transmission signals can be synchronized with each other with ease because signals directed to the plurality of mobile stations are transmitted from the base station in a group the lump. It is therefore possible to suppress interference between transmission signals by spreading each transmission signal by [[a]] an orthogonal synchronization code.

On the other hand, since signals on a downlink from other base stations are hard to be synchronized synchronize with each other, employed as a means for suppressing interference from these base stations is a method of multiplying [[a]] an orthogonal synchronization code by a scramble code inherent to a base station. Used here as a scramble code is a gold code or the like.

Structure of a base station transmission device using the present method is shown in Fig. 12. In a spreading addition device spu shown in Fig. 12, a transmission signal S_i (i: mobile station number) directed to a mobile station and a orthogonal code C_o , i are multiplied at a multiplier 001, the multiplied output signal is added at an adder 002 and the output signal of the adder 002 is multiplied by a scramble code C_s at the multiplier [[001]] 005 to output a composite spreading signal s_d . The composite spreading signal s_d is modulated at a

modulation device 003 and then transmitted from an antenna 004 to each mobile station.

Paragraph beginning at page 4, line 2:

In a case where base station simultaneously uses a plurality of scramble codes ~~at the same time~~ as shown in Fig. 13, and the [[when]] transmission signals having have different required qualities such as [[a]] transmission rate, ~~and a~~ required bit error rate, and ~~transmission signals having~~ different reception qualities ~~dependent~~ depending on a ~~position of~~ where a mobile station is within a cell, the amount of interference, etc. ~~are handled at one base station, the~~ The degree of interference that each transmission signal has received from other transmission signals in the same cell varies due to a difference in [[a]] allocated scramble code allocated to cause thereby causing inequality in communication quality and cause deterioration due to [[by]] interference.

Paragraph at page 15, line 10:

checking a reception power of a common control signal sent out from a base station that is being connected to a mobile station and receiving feedback from the mobile station and a reception power of the common control signal sent out from a base station not being connected to a mobile station, i.e., no feedback is received to calculate a power ratio of a desired signal to an interference signal from a ratio of a reception power corresponding to the base station being connected to a reception power corresponding to the base station not being connected.

Paragraph beginning at page 26, line 6:

In the present invention, a combined code is assigned a priority. Then, a combined code having a higher priority is given preference for allocation to transmission signals. ~~Here, change a~~ The priority can be changed for each transmission signal. More specifically, ~~change a~~ the priority for each transmission signal is changed based on channel quality value information and required quality value information from a mobile station.

Paragraph beginning at page 28, line 11:

In a case where as a channel quality value, a power ratio of a desired signal to an interference signal is adopted here, the power ratio in question can be calculated by checking a reception power of a common control signal sent out from a base station that is being connected to a mobile station and receiving feedback from the mobile station and checking a reception power of a common control signal sent out from off a base station not being connected to a mobile station, i.e., no feedback is received to take a ratio of a reception power corresponding to the base station being connected to a reception power corresponding to the base station not being connected.